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### Space shuttle replica from NASA to be exhibited at 20th Annual Montana Science Fair at UM

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SPACE SHUTTLE REPLICA FROM NASA TO BE EXHIBITED  
AT 20TH ANNUAL MONTANA SCIENCE FAIR AT UM

MISSOULA--

A large replica of a space shuttle from the National Aeronautics and Space Administration (NASA) will be on display Friday and Saturday, April 4-5, during the 20th Annual Montana Science Fair in the Harry Adams Field House at the University of Montana in Missoula.

Dr. Thomas E. Margrave, associate professor of physics and astronomy at UM, obtained the 1/40th scale, 7½-foot tall space shuttle exhibit on loan from the NASA Ames Research Center, Moffett Field, Calif. The exhibit will be on public display during the regular science fair exhibit hours from 6 p.m.-midnight Friday and 8-11:45 a.m. Saturday in the main arena of the field house.

In conjunction with the NASA exhibit and Montana Science Fair, a 28-minute color film entitled "Small Steps--Giant Strides," produced in 1973 in honor of the 15th anniversary of the founding of NASA in 1958, will be shown free of charge at 9:30 a.m. Saturday in room 131 of the UM Science Complex.

Dr. Leonard E. Porter, an associate professor of physics and astronomy at UM, who is now in his second year as director of the State Science Fair, said the film visually portrays the historic accomplishments of the 15-year period "and how we benefited from the new technology."

Porter said about 240 exhibits from students in two divisions--Division I for high school students and Division II for students in grades 7 and 8--will be entered in this year's State Science Fair.

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Students will register their exhibits and set them up from 8 a.m.-noon Friday in the Harry Adams Field House. The scientific displays will be judged from 1-5 p.m. Friday. Awards will be presented at a luncheon at noon Saturday in the University Center Ballroom.

Commenting on the NASA Space Shuttle, Margrave said the vehicle is being developed by NASA to satisfy a need for "a reusable transport system for earth orbital investigations."

"Use of the space shuttle will make the flight of unmanned and manned spacecraft to the planets a much more economical undertaking," Margrave said. "Largely because it can be reused up to 100 times, the space shuttle will reduce costs of space travel from \$1,000 per pound to \$50 per pound."

Margrave said a space shuttle "will take off like a rocket from a launch pad and land like a jet plane when it returns to earth." One of the shuttles is capable of hauling up to 60,000 pounds of scientific equipment.

The first flight of a space shuttle is projected for 1979.

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